

**AASHTO T2-91
SAMPLING OF AGGREGATES**

PROCEDURE		
<u>Selection of Method</u> – Student must demonstrate one method and be able to list the remaining methods for the proctor.	Test 1	Test 2
Sampling from Stockpiles – If the student chooses this method they must demonstrate sampling each of the following materials listed below. (Coarse aggregate, fine aggregate and coarse and fine aggregate).		
<i>Coarse aggregate:</i>		
Board shoved vertically into the stockpile just above sampling point?		
Increments taken from the top third, mid-point, and bottom third of the volume of the pile?		
<i>Fine aggregate:</i>		
Outer layer removed and sample taken from underlying material?		
Appropriate sampling tube randomly inserted to obtain increments?		
Minimum of five increments taken?		
<i>Coarse and Fine Aggregate:</i>		
Increments combined to form field sample?		
Size of field sample equals or exceeds minimum mass needed or stated in Table 1?		
Sampling from Roadway (Bases and Subbases)		
Samples taken randomly using a method such as Practice D 3665?		
Specific areas clearly marked from which each increment will be removed? (a metal template placed over the area is helpful)		
At least three approximately increments taken from roadway at full depth?		
Care taken to exclude any underlying material not part of material being sampled?		
Increments combined to form field sample?		
Minimum size of field sample equals or meets minimum mass needed or as determined from Table 1?		

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	Test 1	Test 2
Sampling from Transportation Units		
<i>Coarse Aggregate:</i>		
Three or more trenches made across the unit at points that will, from visual appearance, give a reasonable estimate of the characteristics of the load?		
Trench bottom is approximately level and at least 0.3 m (1 ft) in width and in depth below the surface?		
Minimum of three increments taken from approximately equally spaced points along each trench?		
Material obtained by pushing a shovel downward in to the material?		
<i>Fine Aggregate:</i>		
Appropriate sampling tube inserted to remove the predetermined number of increments?		
<i>Coarse and Fine Aggregate:</i>		
All increments combined to form a field sample?		
Minimum size of field sample equals or meets minimum mass needed or as determined from Table 1?		
Sampling from a Flowing Aggregate Stream (Bins or Belt Discharge)		
Sampling from the Conveyor Belt		

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TABLE 1 Size of Samples	
Maximum Nominal Size Of Aggregates^A	Approximate Minimum Mass of Field Samples, lb (kg)^B
<i>Fine Aggregate</i>	
No. 8 (2.36 mm)	25 (10)
No. 4 (4.75 mm)	25 (10)
<i>Coarse Aggregate</i>	
3/8 in (9.5 mm)	25 (10)
1/2 in (12.5 mm)	35 (15)
3/4 in (19.0 mm)	55 (25)
1 in. (25.0 mm)	110 (50)
1 1/2 in (37.5 mm)	165 (75)
2 in. (50 mm)	220 (100)
2 1/2 in. (63 mm)	275 (125)
3 in. (75 mm)	330 (150)
3 1/2 in. (90 mm)	385 (175)

^A For processed aggregate the nominal maximum size of particles is the largest sieve size listed in the applicable specification, upon which any material is permitted to be retained.

^B For combined coarse and fine aggregate (for example, base or subbase) minimum weight shall be coarse aggregate minimum plus 25 lb (10 kg).

Date Tested:_____ **Person Assessed:**_____ **Assessor:**_____

Retest Date:_____ **Assessor:**_____